Supplementary data

Enhanced electrochemical performance of < 30 nm thin $LiMnPO_4$ nanorods with a reduced amount of carbon as a cathode for lithium ion batteries

Nam Hee Kwon* and Katharina M. Fromm

Department of Chemistry, University of Fribourg, CH-1700 Fribourg, Switzerland

*namhee.kwon@unifr.ch

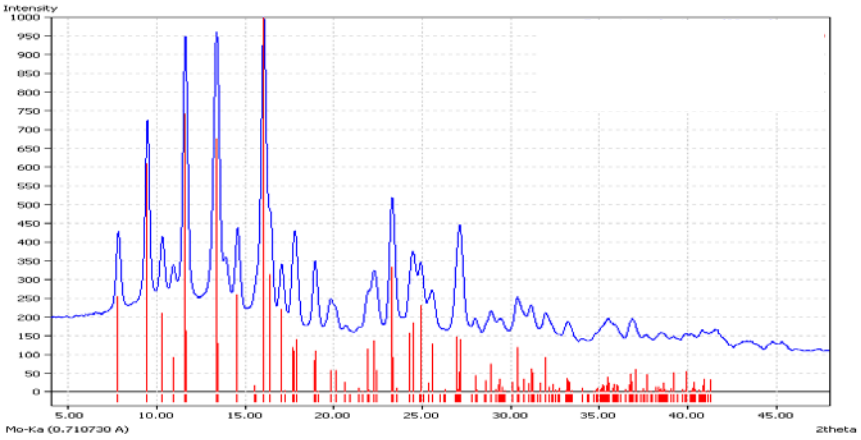

Fig. S1. X-ray powder diffraction of the collected grey powder from the water suspension in S1 (b) shows that the material is $LiMnPO_4$. Blue color is experimental and red is the reference of $LiMnPO_4$.

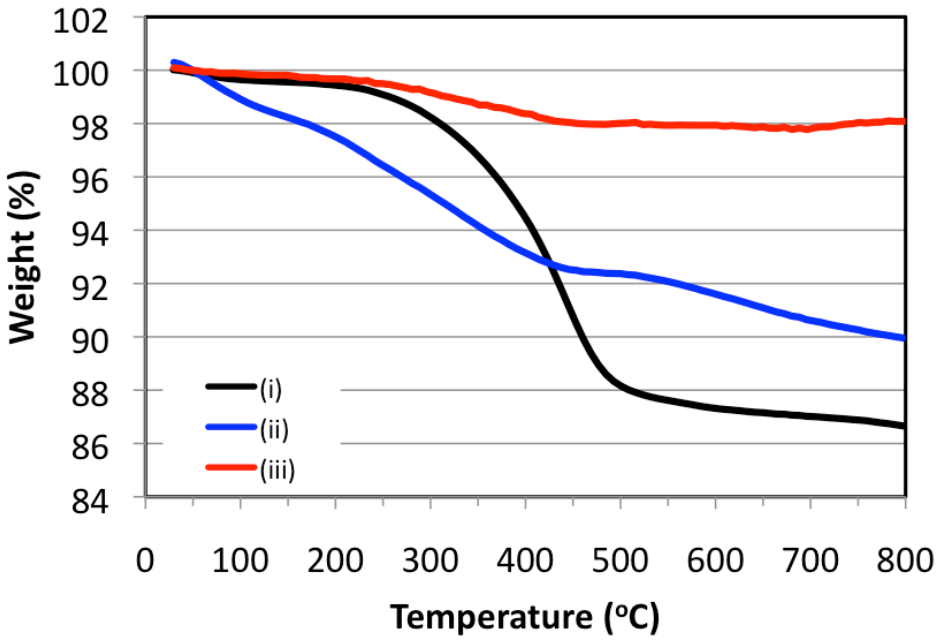

Fig. S2. TGA of various $LiMnPO_4$ samples : (i) coated with surfactant (before washing), (ii) washed with ethanol/hexane and (iii) ligand exchanged with citric acid aqueous solution.

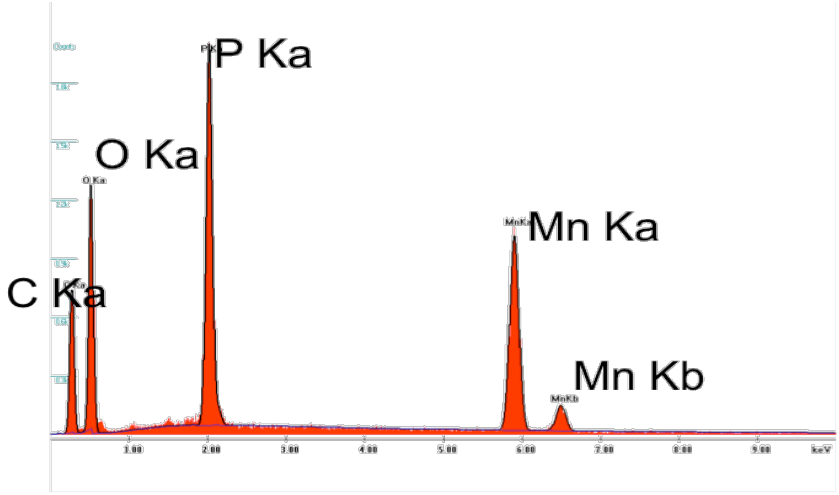

Fig. S3. EDX analysis of nanocomposite 7C-$LiMnPO_4$.